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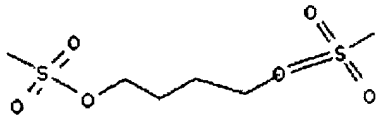
### Busulfan

**Busulfan** is a chemotherapy drug that is an alkylating agent (slows the growth of cancer cells). It is marketed in the US by GlaxoSmithKline under the brand name **Myleran**, and has been in clinical use since 1959. Currently, its main uses are in bone marrow transplantation, especially in Chronic myelogenous leukemia (CML), where it is used as a conditioning drug. Toxicity may include pulmonary fibrosis and hyperpigmentation.

Busulfan also induces thrombocytopenia, a condition of lowered blood platelet count and activity. The drug was recently used in a study (published April 2006, *Science*) to examine the role of platelet-transported serotonin in liver regeneration.

## External links

- [Myleran](#) (PDF prescribing information)
- [Busulfan](#) (patient information)

 <p><i>Busulfan</i></p>	
<p>1,4-bis(methylsulfonyloxy)butane <i>IUPAC name</i></p>	
<p><b>CAS number</b> 55-98-1</p>	<p><b>ATC code</b> [[ATC_code_1]] [1]</p>
<p><b>PubChem</b> 148760</p>	<p><b>DrugBank</b> APRD00664</p>
Chemical formula	C <sub>6</sub> H <sub>14</sub> O <sub>6</sub> S <sub>2</sub>
Molecular weight	246.304
Bioavailability	?
Metabolism	?
Elimination half-life	?
Excretion	?
Pregnancy category	?
Legal status	Approved Drug
Routes of administration	Oral, Parenteral



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Dose-escalated **treosulphan** in combination with cyclophosphamide as a new ... Fassas A, Nash R: **Multiple sclerosis**. Best Pract Res Clin Haematol 2004, ...  
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